

The Northern-European Solar Energy Leader

MANUFACTURER OF GLASS GLASS SOLAR PANELS



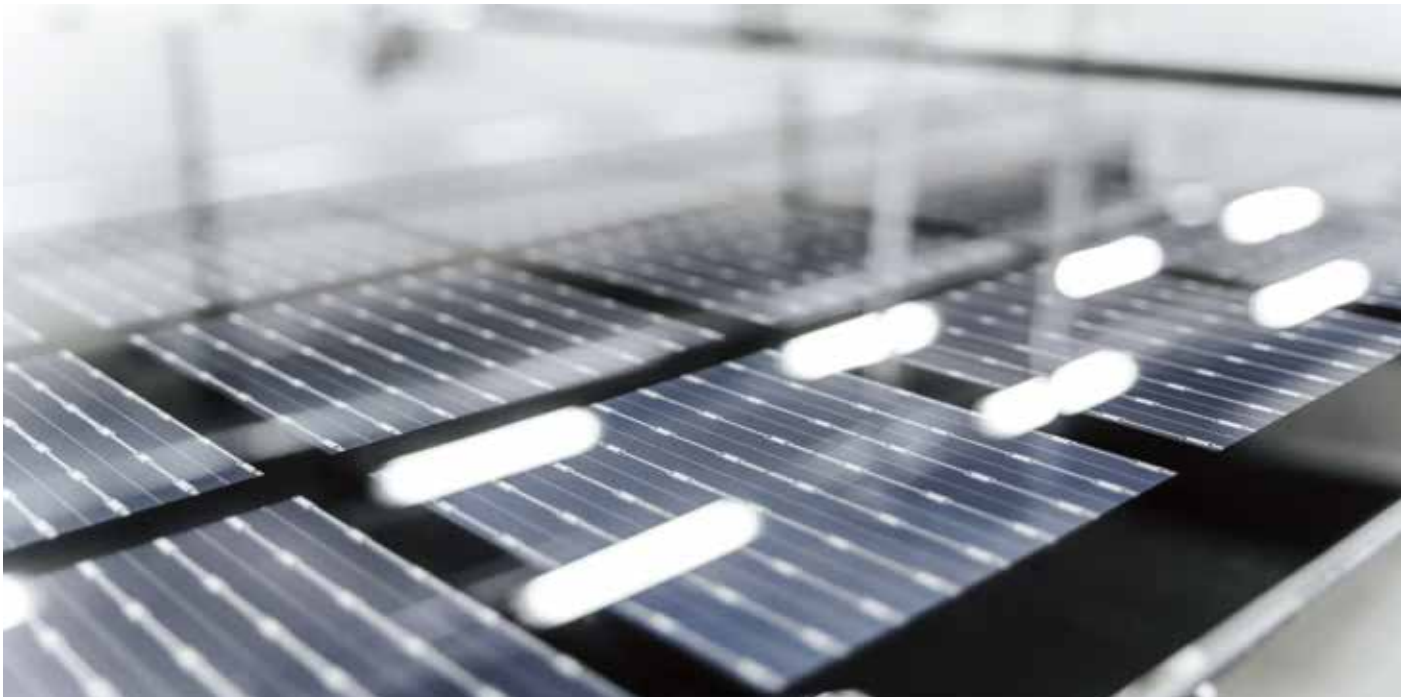
SOLI  **TEK**

It's all about innovation

Implementing innovations into all products is DNA of SoliTek. In 12 years we have matured to offer the European market an exceptional new products, that will please even the most refined and demanding customer.

Our latest products have 3 major elements:

- Bifacial monocrystalline solar cells
- Premium tempered glass to glass lamination
- Flawless industrial design

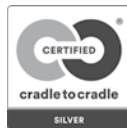




- 1998 ● CD replication business is born
- 2002 ─ CD factory opened in Vilnius
- 2006 ─ CD/DVD factory opened in Vilnius
- 2009 ● Solar energy business is born
- 2011 ─ Blu-ray Disc production line aquired
- 2013 ─ High-tech center and factory L.I.G.H.T. WING opened in Vilnius
Solar cells and modules production starts
- 2014 ● Eyeglass lenses business is born
- 2015 ─ RX eyeglass lenses laboratory opened in Vilnius
- 2020 ─ New Solar modules production line
- 2021 ─ CD replication business was sold
Construction of Innovation and business canter started
- 2022 ─ Energy storage production launch

Partner in researches

Certificates:



PRODUCED USING 100%
RENEWABLE ENERGY

Memberships:



Svensk
Solenergi



Programs:



CABRISS

2015.06 – 2018.06
partner



2015.10 – 2018.10
partner



2018.05 – 2022.10
coordinator



2018.06 – 2022.11
partner



2019.10 – 2022.09
partner

Universities:



kauno
technologijos
universitetas



International Solar Energy
Research Center Konstanz



Vilniaus
universitetas

Danmarks
Tekniske
Universitet



Fraunhofer



ines
INSTITUT NATIONAL
DE L'ENERGIE SOLAIRE



SINTEF

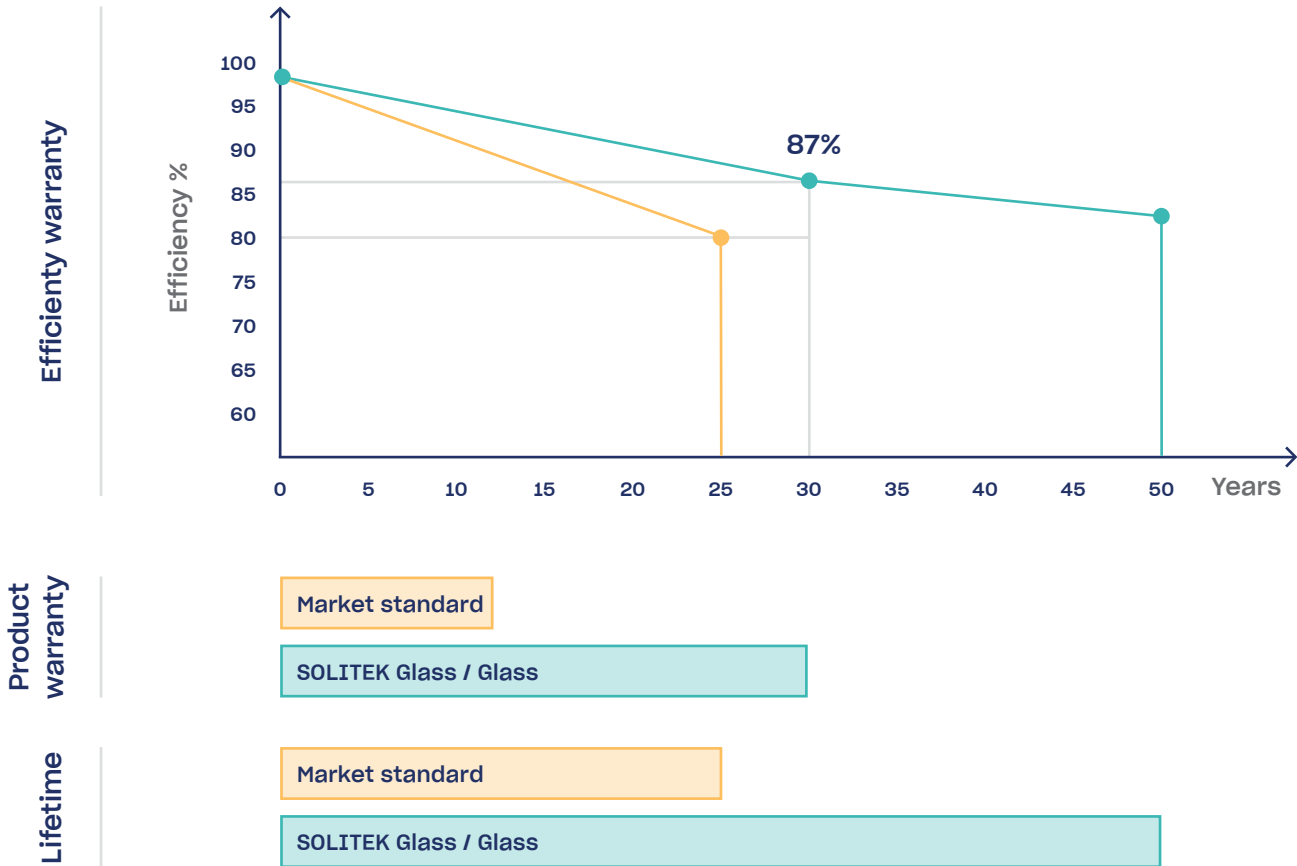
Certified by Cradle to Cradle

The Cradle to Cradle certification defines 5 components for circular economy compatible product:

Cradle to Cradle Certified® Product scorecard	
Material health	Silver
Material reutilization	Gold
Renewable energy & carbon management	Gold
Water stewardship	Platinum
Social fairness	Gold



Longer warranty for higher efficiency



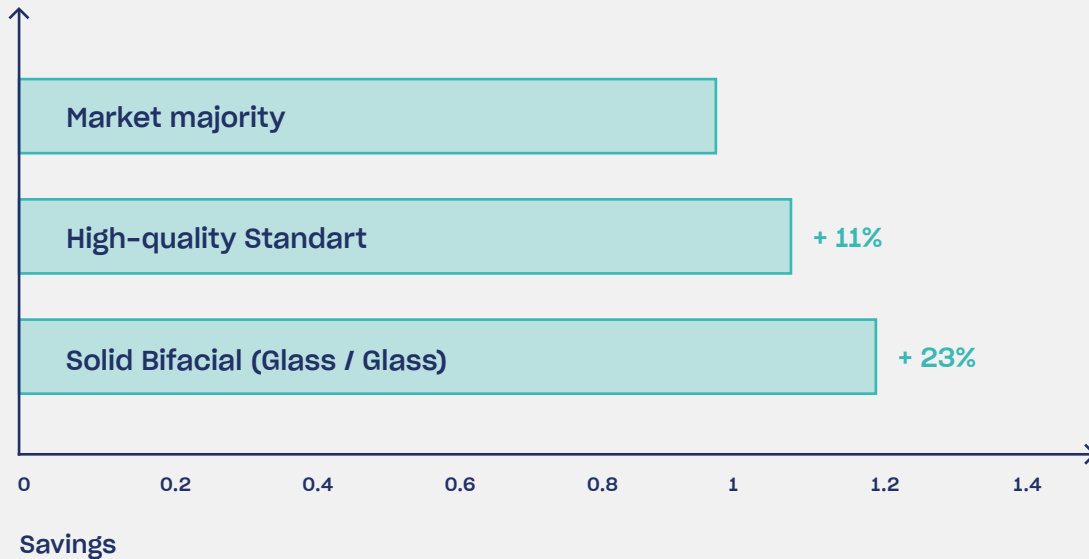
Market standard of 12 year product warranty and 25 year efficiency warranty sounds good only on paper. This means that if the panel fails completely after 13 years it is not covered by any warranty.

- 30 years product warranty
- 30 years of 87% efficiency warranty
- 50 years predicted lifetime

Best choice for your wallet. 30 year savings

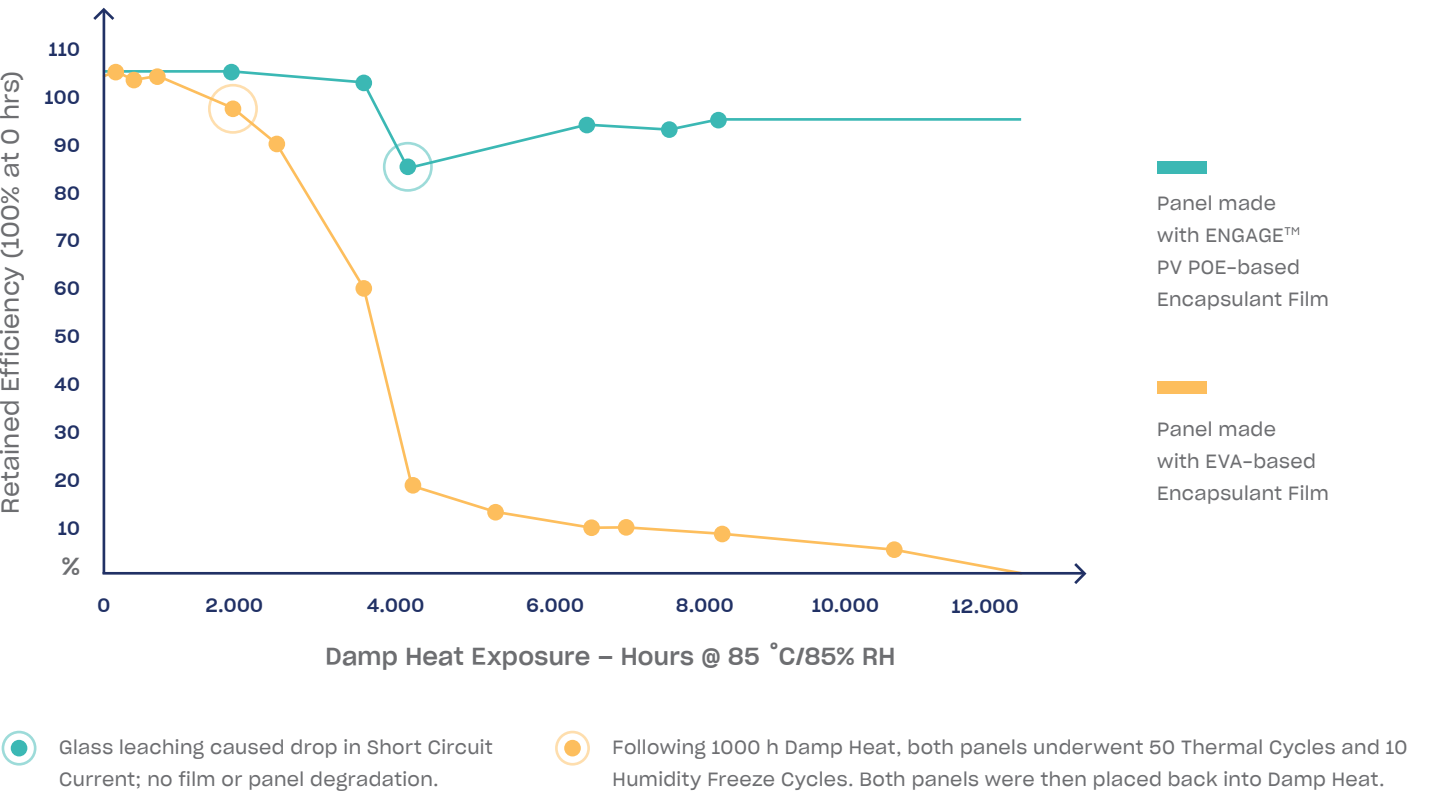
A house with a solar power plant system **increases by ~3% in value and sells 20% faster!** It makes sense to invest in a PV system that lasts!

23% more savings!



* Levelized cost of electricity (LCOE) calculated for a 30 year period.

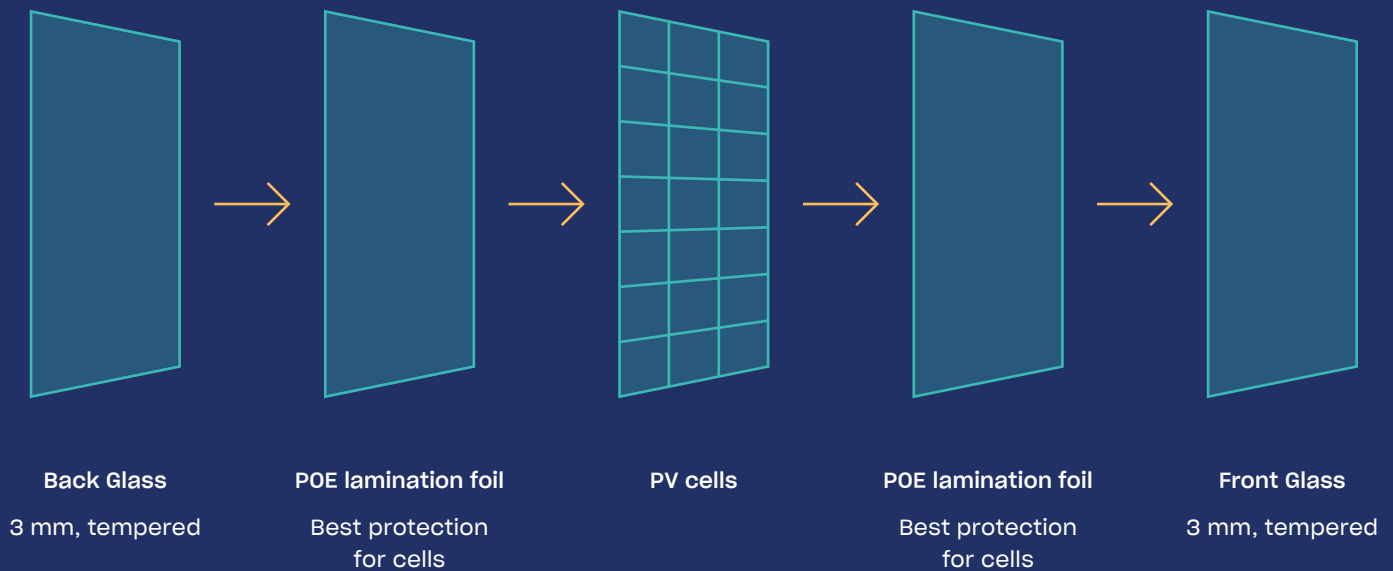
POE is the key



Most manufacturers are using **EVA encapsulants**.
We use **POE**.

	No Acetic acids	100% Waterproof	No browning	Eliminates PID	Maximum Lifetime	Maximum Lifetime
POE	+	+	+	+	+	50 years
EVA	-	-	-	-	-	25 years

Glass Glass anatomy

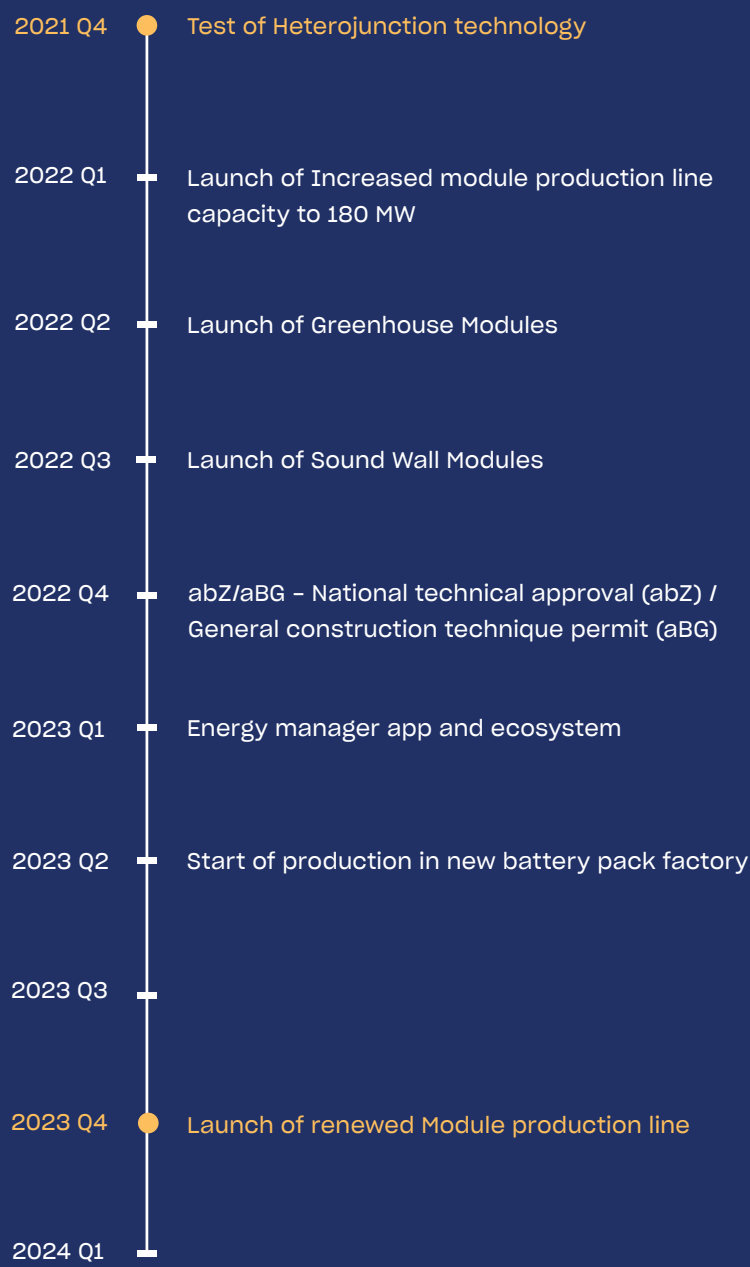


Highest grade materials

Each component plays an important role in the lifetime and performance of our panels. By using only the **highest grade materials** we are able to offer industry-leading product warranties.

No backsheet – no weak spot

Backsheet is a 0.4 mm plastic sheet used in most of the panels on the market today. By eliminating this we are able to dramatically reduce the rate of the panel failure.



Facts & Figures

SoliTek production, 2021

270 k 

Of solar panels

120 MW 

Total produced capacity

SoliTek production forecast, 2022

500 k 

Of solar panels

180 MW 

Total produced capacity

Our customers

60 %

Of our solar panels is exported to Sweden, Finland and Benelux.

85 %

Of our solar panels are exported to EU markets.

Our main clients are PV installers, distributors, and project developers in the EU.

Product Portfolio



BLACKSTAR
(Solid framed)
365W



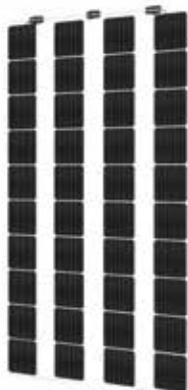
SOLID Bifacial
355W



SOLID Solrif
355W



Glass - Glass
SolidWall
355W



Solid AGRO
240W



Glass - Foil Standard,
Half-cut cell
365W/375W

30 Years
Product warranty

30 Years
Efficiency guarantee

87 %
Power Guarantee
after 30 years

Certifications



Strong from very beginning

Factors causing 88% of panel failures:

- Delamination
- Cell breakage / Microcracks
- Glass breakage
- Backsheet failures
- Frame failures
- Corrosion

Glass / Glass panel is immune to all these factors.

Our panels are (almost) indestructible



Fire class A



Self-cleaning
effect



Extreeme load
resistance



Salt mist
resistance



Ammonia
resistance



Dust & sand
resistance



SOLID Solrif® – solar power plant as a roof

It became possible when we connected our fire class A Glass-Glass solar module SOLID Pro with Solrif® system from Ernst Schweizer AG. **We call this system SOLID Solrif®.**

SOLID Solrif® is valued for its ability to generate electricity, for its simplicity of mounting and design.

House owner saves money twice: at first on roof tiles, and later – on smaller bills for electricity at least for 30 years. All we need to provide the offer is building location and roof dimensions.

Solrif® frame – Ernst Schweizer AG

- 2 decades of development and improvement
- 1920: Company founded
- 1999: Launch of Solrif® frame and mounting system



SOLID Wall - smart and environment friendly solution for facade

Modern outlook of the building

Sustainable and effective

Shows your point of view to environment and global warming issues

Increases the level of energy efficiency of the building

Decreases temperature inside the building on hot season

And generates electricity as well!



Carport with integrated solar panels

Carports eliminate the need for a surface on which solar panels could be mounted. Dependent on the number of places of parking required, a carport are typically one, two or three places wide. Installing a solar carport can power your home, or it can turn a wide-open stretch of pavement into a major electricity generator.

Wood construction

With bifacial panels

5.12 kW



One car

10.24 kW



Two cars



Ground mounted solar plants

Electricity delivered to
1100 homes

4.6 MW

Turkey

Solar park with Solid Bifacial modules, single axis sun tracking system and white covering on the ground – 35% more effective solar park.

2 MW

Ukraine

3.4 MW

Lithuania

1.7 MW

Lithuania



Sound barriers with integrated PV solutions: saving the construction costs – producing energy – safeguarding the population

- An efficient way of noise prevention by application of PV modules was first demonstrated in Switzerland in 1989.
- Applicable to roads and railways.
- Currently the efficiency of the PV and integration modes offers competitive and saving costs solutions.
- The cooperation among the owner, constructor and PV supplier is the key for the successful development of the project – partnership with the local stakeholders is the key.
- Large surface areas are needed to generate electricity from PV modules. Therefore, PVNBs offers additional area over and above the land on which PV modules can be installed and which can provide a better land use ratio for energy production than conventional solar PV farms.



Key numbers of noise barriers

Possible noise barriers height

2.5 – 7 m 

PV modules per kilometer

600 – 2400 

From 0,2 MW to 0,8 MW capacity

Year output

200 – 800 MWh 



AgroPV – the future of agriculture

Agrivoltaics or agrophotovoltaics is the simultaneous use of areas of land for both solar photovoltaic power generation and agriculture.

Combining food and energy production together, dramatically increases the net revenue output from the same piece of land – additional annual financial benefit up to 80%.

3 types of agro-solar power plants:

- Greenhouses
- Farming under the agrivoltaic system
- Farming between the agrivoltaic system



The advantages of Agro-solar compared to traditional agriculture

- Growing fruit and generating green energy at the same time, at the same place.
- Durable and robust protection for your crops, resistant to all types of weather. No more worries about storms or hail showers and less affected by extreme heat.
- More stable microclimate – lower maximum temperatures and higher minimum temperatures.
- No labor to assemble and disassemble the plastic/foil
- Conserves moisture in the ground – less irrigation, saving water resources.
- Smartly installed agro-power plant protects the soil from erosion.
- No investment in expensive (conventional) cultivation support facilities
- Give your company a more sustainable look.



Proud to be green and innovative from very beginning

Recognized as the **“Greenest Industrial Building in Europe”** in 2013 by the German Chamber of Commerce. **All production is powered by 100% renewable energy.**

Most of our power demand is satisfied by our own patented **PV-Geothermal heating and cooling system**, which consists of 1 MW of Geothermal power and 150 kW of PV power.

Due to our use of renewable energy use in manufacturing, we save over **400 tons of CO₂ from emission each year.** That's the equivalent of planting **2000 trees every year.**



Energy storage solution

SoliTek, Avesta Battery & Energy Engineering (ABEE) and IMECAR Elektronik have signed a joint venture agreement for the set up of a new battery pack production in Lithuania (Vilnius). The battery pack factory will be fully operational by January 2023.

The new factory will have a starting production capacity of 100 MWh, which will later be scaled up towards 1 GWh. The produced battery packs will be designed for home storage, industrial and renewable applications.

| R&D Battery Equipment

| 2022 Vilnius Lithuania



